

[DRIVING CIRCUIT DESIGN FOR DISPLAY DEVICE]

Abstract of Disclosure

A driving circuit design for a display device. This invention uses the voltage-driven circuit of a conventional TFT-LCD such that the pixel is capable of outputting a different driving current to each OLED having a characteristic red, green or blue coloration under identical data voltage conditions. Different driving currents are produced by adjusting channel width/length ratio of the TFT driver in each pixel. Consequently, an appropriate luminance ratio between red, green and blue lights may be set to reproduce white light through the red, green and blue OLED and hence attain full coloration.

Figures